3Com® OfficeConnect® Wireless 11g Access Point, PC Card, and USB Adapter

DATA SHEET

- 802.11g standard supports speeds up to 54 Mbps at distances up to 100 coverage meters (328 feet)*.
- 11g access point supports up to 128 simultaneous users, allowing plenty of room for growth.
- Wi-Fi certifiication ensures interoperability with Wi-Fi certified products from other vendors.

Key Benefits

High Performance and Wide Coverage

For simple, reliable, high-speed 802.11g wireless connections choose a winning trio: the 3Com® OfficeConnect® Wireless 11g Access Point, 3Com OfficeConnect Wireless 11g PC Card, and 3Com OfficeConnect Wireless 11g USB Adapter. With these products, users can roam about the office—accessing network resources and the Internet at speeds up to 54 Mbps—ideal for high-bandwidth applications. Performance-boosting features such as packet bursting, compression, and concatenation increase the effective transmission speed with no user intervention.

Compatible

Your existing wireless network investment is preserved because the 3Com OfficeConnect Wireless 11g Access Point supports 802.11b as well as 802.11g wireless devices. Wi-Fi certification helps ensure interoperability with certified products from other vendors.

Economical

Wireless networks can be a viable alternative to wired network expansions and an attractive solution for home and branch offices, remote sites, and classrooms. Since there's no need to drill holes or run Ethernet cabling, it's also cost-effective for temporary networks. The access point supports up to 128 simultaneous users, which gives your organization plenty of room to grow.

Simple Installation and Use

Setup and operation are extraordinarily easy, making these OfficeConnect products an intelligent choice for first-time wireless users and small offices; typically no manual configuration is required. To speed setup for specific configurations, a single access point configuration can be copied to other access points on the network. The PC Card and USB adapter Wireless Card Manager lets an administrator create profiles for mobile users that reflect specific wireless LAN settings for each place they travel: users just select the proper profile for instant connection.

Convenient

For added flexibility, PRISM Nitro Directlink enables wireless users to establish direct, secure high-speed links while still maintaining communications with an access point.

Secure

To protect wireless connections, these products support up to 256-bit WPA encryption for high-level security, and 40/64- and 128-bit WEP shared-key encryption for legacy clients.

Reliable Connections

Dynamic rate shifting automatically matches the best connection speed in response to physical and traffic conditions so wireless connections stay reliable. Clear Channel Select enables the access point to scan the spectrum and select the least busy channel.

*Range depends on physical conditions, building construction, electrical devices in the area, and otherenvironmental factors.

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Features

	Description
POWERFUL	
High-speed access and wide	802.11g standard supports speeds up to 54 Mbps at distances up to 100 coverage meters (328 feet)*.
Packet bursting	Increases throughput by sending more frames per given time period;benefits 11g and 11b wireless clients.
Real-time hardware compression (PC Card and USB Adapter)	Reduces data frame size for faster throughput with no impact to the host processor.
Concatenation & piggyback acknowledge (PC Card and USB Adapter)	Combines multiple small data packets into a "jumbo" 802.11 packet and eliminates redundant messages to improve network efficiency.
User growth support	The 11g access point supports up to 128 simultaneous users, allowing plenty of room for growth.
COMPATIBLE	
Backward–compatible to 802.11b	The 11g access point supports both 802.11g and 802.11b users, preserving existing wireless investments.
Wi-Fi certified	Helps ensure interoperability with Wi-Fi certified products from other vendors.
EASY TO USE	
Simple installation	No need to drill holes or run Ethernet cabling to set up your network.
Wireless Card Manager (PC Card and USB Adapter)	Lets administrators create profiles for each place mobile users travel. Also displays connection status and features simple-to-use diagnostic tools.
USB adapter with hinged antenna and swiveling USB connector	Delivers the flexibility and convenience of USB connections without sacrificing performance. Hinged antenna works with a variety of desktop or notebook designs.
Access Point Discovery program	Automatically identifies network access points for easy setup and configuration.
Save and restore feature (Access Point)	Copies settings to additional devices on the network, simplifying and speeding setup of additional access points.
Web-based administration (Access Point)	Familiar browser interface lets administrators configure and manage access points from anywhere on the network.
CONVENIENT	
PRISM Nitro Directlink (PC Card and USB Adapter)	For added flexibility, enables wireless users to automatically establish a secure, two-way high-speed connection while maintaining communications with an AP.
RELIABLE	
Dynamic rate shifting	Automatically matches the best connection speed in response to changing traffic and environmental conditions.
Clear Channel Select (Access Point)	Selects the channel with the least traffic for clear, quick connections.
SECURE	
WPA and WEP encryption	Help keep wireless transmissions private using up to 256-bit encryption.

*Range depends on physical conditions, building construction, electrical devices in the area, and other environmental factors.

Specifications

3Com OfficeConnect Wireless 11g Access Point Specifications

Minimum System Requirements
Computer with an Ethernet 10BASE-T, 10/100, or 10/100/1000 interface configured for Internet communication. Operating system that supports an Ethernet connection with an IP stack. Installation CD requires Windows 98SE/ME/XP/2000. For wireless access, PCs and laptops require 802.11g, 802.11b, or 802.11a/b/g PC, PCI, or USB cards and adapters.

Users Supported
128 simultaneous users

Physical Ports
LAN: 1 10/100 Port

Receive Sensitivity
802.11g
54 Mbps: -66 dBm
48 Mbps: -69 dBm
36 Mbps: -72 dBm
24 Mbps: -75 dBm
18 Mbps: -79 dBm
12 Mbps: -82 dBm
9 Mbps: -82 dBm
6 Mbps: -85 dBm
802.11b
11 Mbps: -82 dBm
5.5 Mbps: -85 dBm
2 Mbps: -87 dBm
1 Mbps: -90 dBm

Performance Features
Clear Channel Select, packet bursting

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Specifications

Installation, Configuration, and Management
Browser-based access point administration
Wireless-installation and device-discovery wizards
Pre-set defaults
Save and restore configuration files

LED Indicators
Power; Alert/diagnostics
LAN port status—Link, Speed, and Activity
WLAN port status—Link, Activity

Dimensions and Weight
Height: 2.5 cm (1 in)
Width: 22 cm (8.7 in)
Depth: 13.5 cm (5.3 in)
Weight: 592 g (1.3 lb)

Power
Supplied with external OfficeConnect® power adapter:
Operating input voltage: 10–30V
Operating frequency: 47–63Hz
Maximum power consumption: 6.5W
Maximum power transmit output: 17dBm

Regulatory/Agency Approvals
Safety: UL 1950, EN 60950 CSA 22.7 #950, IEC 60950
Emissions: EN 55022 Class B, EN 55024, FCC Part 15, Class B ICES-003 Class B, CNS 13438 Class A
Environmental: EN 60068 (IEC 68), UL Listed—CSA certified

Environmental Range
Operating temperature:
0° to 40°C (32° to 105°F)
Non-operating temperature:
-40° to 70°C (-40° to 158°F)
Operating humidity:
0 to 90% non-condensing

Package Contents
3Com OfficeConnect Wireless 11g Access Point
OfficeConnect power adapter
Quick Start Guide
CD-ROM with Access Point Discovery program and user guide
One straight-through category 5 UTP patch cable
Four rubber feet

3Com OfficeConnect Wireless 11g PC Card and USB Adapter Specifications

System Requirements
PC Card: Notebook PC with an available Type II or Type III 32-bit PC Card slot (3.3V)
USB Adapter: Notebook or desktop PC with USB port; USB 2.0 required for 54 Mbps data rate
Notebook or desktop PC must be running Windows 98SE/ME/XP/ 2000

Drivers/Supported Operating Systems
NDIS 5: Windows ME, 2000, 98SE
NDIS 5.1: Windows XP

Receive Sensitivity (PC Card)
802.11g
54 Mbps: -67.6 dBm
48 Mbps: -69.6 dBm
36 Mbps: -78.8 dBm
24 Mbps: -79.8 dBm
18 Mbps: -85.4 dBm
12 Mbps: -85.6 dBm
9 Mbps: -88.5 dBm
6 Mbps: -88.0 dBm
802.11b
11 Mbps: -82.8 dBm
5.5 Mbps: -78.8 dBm
2 Mbps: -89.9 dBm
1 Mbps: -89.9 dBm

Receive Sensitivity (USB Adapter)
802.11g
54 Mbps: -68 dBm
48 Mbps: -68 dBm
36 Mbps: -75 dBm
24 Mbps: -79 dBm
18 Mbps: -82 dBm
12 Mbps: -84 dBm
9 Mbps: -87 dBm
6 Mbps: -88 dBm
802.11b
11 Mbps: -82 dBm
5.5 Mbps: -84 dBm
2 Mbps: -86 dBm
1 Mbps: -88 dBm

Peformance Features (PC Card)
Dynamic rate shifting, real-time hardware compression, packet bursting, concatenation, piggyback acknowledge, PRISM Nitro Directlink
Installation, Configuration, and Management
Wireless Card Manager
Pre-set defaults

LED Indicators
Link, Activity

Dimensions (PC Card)
Height: 11.3 cm (3.9 in)
Width: 5.4 cm (2.8 in)
Depth: 0.5 cm (0.2 in)

Dimensions (USB Adapter)
Height: 10.7 cm (4.2 in)
Width: 2.8 cm (1.1 in)
Depth: 1.1 cm (0.4 in)

Operating Voltage
3.0V–3.6V
Maximum Transmit Power Output:
17dBm

Regulatory/Agency Approvals
Safety: UL/CSA 60950, EN 60950
Emissions: FCC Part 15.247, RSS-210, EN 300 328-2, FCC Part 15 Subpart B, (SAR) FCC OET Bulletin 65, RSS-102, prEN 50371

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Specifications

Environmental Range
Operating temperature:
0° to 50°C (32° to 122°F)
Operating humidity:
0 to 90% non-condensing

Package Contents (PC Card)
3Com OfficeConnect® Wireless 11g PC Card
Quick start guide
CD-ROM with drivers, installation and diagnostics software, and documentation

Package Contents (USB Adapter)
3Com OfficeConnect® Wireless 11g USB Adapter
CD-ROM with drivers and documentation
Installation guide

Common Specifications

Data Rates
802.11g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
802.11b: 11, 5.5, 2, and 1 Mbps

Frequency Band
2.4-2.4835 GHz

Wireless Medium
DSSS and OFDM

Media Access Protocol
CSMA/CA

Operating Channels (PC Card)
5-7 (Israel)
10-13 (Jordan)
1-11 (U.S., Canada, Colombia, Mexico, Taiwan)
1-13 (France, Argentina, Brazil)

Operating Channels (USB Adapter)
1-13 (3 non-overlapping)

Operating Range
100 meters (328 feet)

Performance Features
Dynamic rate shifting

Security
256-bit WPA encryption (Access Point and PC Card)
WPA encryption (USB Adapter)
40/64-bit and 128-bit WEP shared-key encryption (all)

Standards Conformance
WPA certified, IEEE 802.11b, IEEE 802.11g

Warranty
PC Card and access point: 1 year hardware warranty
USB Adapter: 3 year warranty
Refer to 3com.com for details.

Ordering Information

PRODUCT DESCRIPTION	3COM SKU
3Com OfficeConnect Wireless 11g Access Point	3CRWE454G72
3Com OfficeConnect Wireless 11g PC Card	3CRWE154G72
3Com OfficeConnect Wireless 11g USB Adapter	3CRWE254G72

The 3Com OfficeConnect Wireless 11g products can be used with all 3Com Wireless LAN products, including these products below:

3Com OfficeConnect Wireless 11g Cable/DSL Gateway	3CRWE554G72
3Com OfficeConnect Wireless 11a/b/g PC Card	3CRWE154A72
3Com OfficeConnect Wireless 11a/b/g Access Point	3CRWE454A72

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To learn more about 3Com solutions, visit www.3com.com. 3Com is publicly traded on NASDAQ under the symbol COMS.

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